

## 6MM Mathematics Weekly Topic Overview 2011 Term 1

WEEK	NUMBER	PATTERNS & ALGEBRA	SPACE & GEOMETRY	MEASUREMENT	DATA
2 PAS 3.1 Patterns and Algebra		<ul style="list-style-type: none"> <li>• Build simple geometric patterns involving multiples ✓</li> <li>• Complete a table of values for geometric and number patterns ✓</li> <li>• Describe a pattern in words in more than one way ✓</li> <li>• Investigate growing patterns ✓</li> <li>• Complete missing values ✓</li> <li>• Use algebraic terms to write rules ✓</li> </ul>	7/2/11 - 24/2/11		
3 PAS 3.1 Patterns and Algebra					
4 NS 3.1 Whole Number	<ul style="list-style-type: none"> <li>• Read, write and order numbers of any size using place value ✓</li> <li>• Record numbers in expanded notation ✓</li> <li>• Recognise the location of negative numbers in relation to zero ✓</li> <li>• Find place, total and face values ✓</li> <li>• Convert numbers into Roman Numerals and vice versa ✓</li> <li>• Round numbers up to 7 digits ✓</li> </ul>	25/2/11 - 11/3/11			
5	Canberra Trip				

6 DS 3.1 Data					<ul style="list-style-type: none"> <li>Determine the mean, mode, median and range for a small set of data</li> <li>Draw column, line and divided bar graphs using scales of many-to-one correspondence</li> <li>Read and interpret sector (pie) graphs</li> <li>Read and interpret graphs with scales of many-to-one correspondence</li> </ul>
7 DS 3.1 Data					<p>14/3/11 -</p> <p>24/3/11</p>
8 NS 3.2 + & -				28/3/11 - 1/4/11	<ul style="list-style-type: none"> <li>Select and apply appropriate mental strategies for addition and subtraction with counting numbers of any size (ensuring numbers greater than 6 digits are included)</li> <li>Check solutions using the inverse operation or different method.</li> </ul>
9 NS 3.2 + & -					
10 SES 3.3 Position					<ul style="list-style-type: none"> <li>Interpret scales on maps and plans</li> <li>Make simple calculations using scale</li> </ul> <p>4/4/11 - 7/4/11</p>

## Year 6 Mathematics Weekly Topic Overview 2011 Term 2

WEEK	NUMBER	PATTERNS & ALGEBRA	SPACE & GEOMETRY	MEASUREMENT	DATA
1 NS 3.4 Fractions and Decimals	<ul style="list-style-type: none"> <li>Model, compare and represent commonly used fractions (those with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100)</li> <li>Find equivalence between thirds, sixths and twelfths</li> <li>Express a mixed numeral as an improper fraction and vice versa.</li> </ul>	29/4/11 - 9/5/11			
2 NS 3.4 Fractions and Decimals					
3 SES 3.2 2D Shape			<ul style="list-style-type: none"> <li>Identify right-angled, isosceles, equilateral and scalene triangles</li> <li>Identify and draw regular and irregular two-dimensional shapes</li> <li>Identify and name parts of a circle</li> <li>Enlarge and reduce pictures and maps</li> <li>Identify shapes that have rotational symmetry</li> <li>Classify angles as right, acute, obtuse, reflex, straight or a revolution</li> <li>Measure in degrees and construct angles using a protractor</li> </ul>	10/5/11 - 24/5/11	
4 SES 3.2 2D Shape					
5 NS 3.3 x &	<ul style="list-style-type: none"> <li>Use mental strategies to multiply a 2 digit number by a 1 digit number (eg. <math>19 \times 7 = (10 \times 7) + (9 \times 7) = 20 \times 7 - 7</math>)</li> </ul>				

<b>5</b> <b>NS 3.3</b> <b>x &amp;</b> <b>Division</b>	<ul style="list-style-type: none"> <li>Use mental strategies to multiply a 2 digit number by a 1 digit number (eg. <math>19 \times 7 = (10 \times 7) + (9 \times 7) = 20 \times 7 - 7</math>)</li> <li>Select and apply appropriate mental, written or calculator strategies for multiplication and division.</li> <li>Select and apply appropriate mental, written or calculator strategies for multiplication and division</li> <li>Use formal written algorithms for multiplication (limit operators to two-digit)</li> </ul>	$25/s/11 - 14/6/11$			
<b>6</b> <b>NS 3.3</b> <b>x &amp;</b> <b>Division</b>					
<b>8</b> <b>MS 3.3</b> <b>Volume and Capacity</b>		<p>Move to Term 3</p>	<ul style="list-style-type: none"> <li>Recognise the need for cubic metres</li> <li>Estimate and measure the volume of rectangular prisms</li> <li>Select the appropriate unit to measure volume and capacity</li> <li>Determine the relationship between cubic centimetres and millilitres</li> <li>Record volume and capacity using decimal notation to three decimal places</li> </ul>		
<b>8</b> <b>MS 3.3</b>					



9 NS 3.5 Chance	<ul style="list-style-type: none"> <li>Assign numerical values to the likelihood of simple events occurring</li> <li>Order the likelihood of simple events on a number line from 0 to 1</li> </ul>	} Move to Term 3				
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## Year 6 Mathematics Weekly Topic Overview 2011 Term 3

WEEK	NUMBER	PATTERNS & ALGEBRA	SPACE & GEOMETRY	MEASUREMENT	DATA
1 NS 3.2 + & -	<ul style="list-style-type: none"> <li>Select and apply appropriate mental, written or calculator strategies for addition and subtraction to solve addition and subtraction problems.</li> </ul>				
2 NS 3.2 + & -					
3 MS 3.1 Length				<ul style="list-style-type: none"> <li>Select and use the appropriate unit and device to measure lengths, distances and perimeters</li> <li>Convert between metres and kilometres; millimetres, centimetres and metres</li> <li>Record lengths and distances using decimal notation to three places</li> <li>Calculate and compare perimeters of squares, rectangles and equilateral and isosceles triangles</li> </ul>	
4 MS 3.1 Length					
5 NS 3.4 Fractions and	<ul style="list-style-type: none"> <li>Multiply and divide decimals by whole numbers in everyday contexts</li> <li>Add and subtract decimals to</li> </ul>				

<b>Decimals</b>	three decimal places <ul style="list-style-type: none"> <li>Add and subtract simple fractions where one denominator is a multiple of the other</li> <li>Multiply simple fractions by whole numbers</li> <li>Calculate unit fractions of a number</li> <li>Calculate simple percentages of quantities</li> <li>Apply the four operations to money in real-life situations</li> </ul>					
<b>6</b> <b>NS 3.4</b> <b>Fractions and Decimals</b>						
<b>7</b> <b>SGS 3.1</b> <b>3D Shape</b>			<ul style="list-style-type: none"> <li>Identify three-dimensional objects, including particular prisms and pyramids, on the basis of their properties</li> <li>Construct three-dimensional models given drawings of different views</li> </ul>			
<b>8</b> <b>SGS 3.1</b> <b>3D Shape</b>						
<b>9</b> <b>MS 3.5</b> <b>Time</b>				Convert between am/pm notation and 24-hour time Compare various time zones in Australia, including during daylight saving Draw and interpret a timeline using a scale Use timetables involving 24-hour time		
<b>10</b> <b>MS 3.5</b> <b>Time</b>						

## Year 6 Mathematics Weekly Topic Overview 2011 Term 4

WEEK	NUMBER	PATTERNS & ALGEBRA	SPACE & GEOMETRY	MEASUREMENT	DATA
<b>1</b> MS 3.2 Area				<ul style="list-style-type: none"> <li>Select and use the appropriate unit to calculate area</li> <li>Recognise the need for square kilometres and hectares</li> <li>Develop formulae in words for finding area of squares, rectangles and triangles</li> </ul>	
<b>2</b> MS 3.2 Area					
<b>3</b> MS 3.4 Mass				<ul style="list-style-type: none"> <li>Recognise the need for tonnes</li> <li>Convert between kilograms and grams and between kilograms and tonnes</li> <li>Select and use the appropriate unit and device to measure mass</li> <li>Record mass using decimal notation to three decimal places</li> </ul>	
<b>4</b> MS 3.4 Mass					
<b>5</b>	CAMP				
<b>6</b> NS 3.4 F & D	<ul style="list-style-type: none"> <li>Revision of fractions and decimals</li> </ul>				
<b>7</b>	REVISION AND TESTING				